Department of Computer Science and Engineering

BS in Computer Science
BS in Computer Engineering

- Advising Information
- Core Curriculum
- Course Descriptions
- Degree Plan Information

UNT Discovery Park (NTDP) F201
(940) 565-2767
www.cse.unt.edu

Valid only for those on Catalog Year 2015-16

ADVISING INFORMATION:
http://www.cse.unt.edu/site/node/418

UNIVERSITY of NORTH TEXAS
Educational Objectives

Educational Objectives for the B.S. in Computer Science

Graduates will:
• Pursue graduate studies in computer science or related disciplines, and/or a career in a technology field utilizing skills from the computer science areas studied during the undergraduate program.
• Act responsibly and ethically in their professional conduct and successfully engage in life-long learning.
• Work effectively in multi-disciplinary teams and exhibit the ability to communicate effectively.
• Complete professional work assignments that exhibit the ability to design, develop and implement software while applying computer science principles and practices to the solution of real problems.

Educational Objectives for the B.S. in Computer Engineering

Graduates will:
• Have completed projects involving design, evaluation of materials, and management of computational and personnel resources to solve problems in multi-disciplinary teams and exhibit the ability to communicate effectively.
• Pursue graduate studies in computer engineering or related disciplines and careers involving VLSI design, real-time systems, communications, and networks or computer systems.
• Act responsibly and ethically in their professional conduct and successfully engage in life-long learning.
• Complete professional work assignments that exhibit a good balance between software and hardware systems, including software development, design of digital systems, microprocessors, embedded systems, real-time systems and digital communication systems.
### CORE CURRICULUM FOR BS IN COMPUTER SCIENCE

**Computer Science**

- **A Minimum of 120 semester hours required for graduation.**
- **42 advanced (3000-4000 level) hours required for degree (minimum of 24 must be taken at UNT).**
- **A minimum of 31 semester hours must be completed at UNT.**

**THIS IS A SIMPLIFIED GUIDE TO SELECTING COURSES – PLEASE MEET WITH YOUR ADVISOR AND CHECK THE UNDERGRADUATE CATALOG FOR ALL COURSE OPTIONS IN EACH CATEGORY.**

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**Math, Science & Engineering Found.**

<table>
<thead>
<tr>
<th>Laboratory Sciences (16 Hours; 4 courses [with labs])</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PHYS 1710-1730 (4 hours)</td>
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<tr>
<td>PHYS 2220-2240 (4 hours)</td>
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<tr>
<td>*CHEM 1410 or 1415 &amp; lab</td>
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<tr>
<td>BIOL 1710 (3 hours)</td>
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</tbody>
</table>

**Mathematics (13 Hours)**

| *MATH 1710 – Calculus I (4 hours)                       |
| MATH 1720 – Calculus II (3 hours)                       |
| MATH 1780 – Probability (3 hours)                        |
| MATH 2700 – Linear Algebra (3 hours)                     |

**ORAL / ADVANCED WRITTEN COMMUNICATIONS (3 Hours)**

*TECM 2700 (satisfies second English requirement)*

**COMUNICATION (3 Hours)**

- Approved course __________________
- Grade of “C” or better required

**American History (6 Hours)**

- HIST 2610
- HIST 2620 /4700

**NOTE: Honors equivalents or History 4700 (Texas History) or any advanced US-Topic History course(s) may substitute for either of the US History survey courses.**

**Government / Political Science (6 Hours)**

- PSCI 1040
- PSCI 1050

**NOTE: If you are transferring credit for either PSCI course, please check with your advisor. Do not assume that your “first” course elsewhere is the same as PSCI 1040. An out-of-state American Government course cannot be equivalent to PSCI 1040 but may be equivalent to PSCI 1050. Any advanced US-Topic Political Science course may substitute for PSCI 1050 only.**

**Social and Behavioral Science (3 Hours)**

(from list of approved options for this category)

**Creative Arts (3 Hours)**

(upper division recommended to reach 42 advanced hours)

**Language, Philosophy & Culture (3 Hours)**

(from list of approved options for this category)

**Discovery (3 Hours)**

**Capstone (3 Hours)**

CSCE 4010 Satisfies

**Take upper division (3xxx & 4xxx) courses where possible**

**NOTE: The student is required to maintain a 2.75 GPA and a C or better in all CSCE courses.**

Certificates:

- CSCE 4210, 4215, 4220, & 4250 = Game Programming Cert.
- 2nd & 3rd advanced Tech Writing = Tech Writing Certificate

Check with your advisor concerning elective courses

Max 6 hours of credit in CSCE 4890, 4920, 4940, or 4950.

In case of conflicting information, the catalog (catalog.unt.edu) prevails. This guide is for catalog year 2015-16 and does not apply to other catalog years.
# Suggested 4 Year Schedule

**BS in Computer Science**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
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<td><strong>Fall</strong></td>
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<td>CSCE 1030 Communications LAB. Science Math 1710</td>
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<td></td>
<td>Phys 2220/2240 CSCE 2100 MATH 1780 ENGR 2720/2730 PSCI 1050</td>
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<td><strong>Spring</strong></td>
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<td>Phys 1710/1730 TECM 2700 CSCE 1040 PSCI 1040 Math 1720</td>
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<td>CSCE 2110 CSCE 2610 Humanities MATH 2700 Lab Science</td>
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<td>CSCE 3110 CSCE 3600 HIST 2610 Visual and Perf. Arts CSCE Core Course</td>
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<td>CSCE 4110 CSCE Breadth Course CSCE 4444 CSCE Adv Elective CSCE 4010</td>
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<td>CSCE Core Course CSCE Breadth Course TECM 4xxx Social and Beh. Science HIST 4700</td>
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<td>CSCE 4901 or CSCE 4999 CSCE Adv Elective CSCE Adv Elective Discovery Course</td>
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CORE CURRICULUM FOR BS IN COMPUTER ENGINEERING

Computer Engineering

• A Minimum of 121 semester hours required for graduation.
• 42 advanced (3000-4000 level) hours required for degree (minimum of 24 must be taken at UNT).
• A minimum of 31 semester hours must be completed at UNT.

This is a simplified guide to selecting courses - please meet with your advisor and check the undergraduate catalog for all course options in each category.

Math, Science & Engineering Found.

- Must earn at least a “C” in all courses and a 2.5 GPA

LABORATORY SCIENCES (12 Hours; 3 courses)

- PHYS 1710-1730 (4 hours)
- PHYS 2220-2240 (4 hours)
- CHEM 1410 or 1415 and lab (4 hours)

MATHEMATICS (19 Hours)

- MATH 1710 – Calculus I (4 hours)
- MATH 1720 – Calculus II (3 hours)
- MATH 1780 – Probability (3 hours)
- MATH 2700 – Linear Algebra (3 hours)
- MATH 2730 – Multivar Calc. (3 hours)
- Adv. MATH or CS SCIENCE ELECTIVE

Choose a 3000 or 4000 level course from Math, Physics, Chemistry, Biology, Geology, or Geography

ORAL / ADVANCED WRITTEN COMMUNICATIONS (3 Hours)

- TECM 2700 (satisfies second English req.)

* = Engineering Foundation Courses

Computer Science and Engineering

CSE 1030 – CSI (4 Hrs)
CSE 1040 – CS2 (3 Hrs)
CSE 2100 – Foundations I (3 Hrs)
CSE 2110 – Foundations II (3 Hrs)
CSE 2610 – Comp. Org (3 Hrs)
CSE 3010 – Signals & Sys (3 Hrs)
CSE 3020 – Comm Systems (3 Hrs) or EENG 3810
CSE 3600 – Systems Progr (3 Hrs)
CSE 3612 – Embed. Systems (3 Hrs)
CSE 3730 – Reconfig Logic (3 Hrs)
CSE 4011 – Engineering Ethics (3 Hrs)
CSE 4910 – Senior Design (3 Hrs)
CSE 4915 – Senior Design 2 (3 Hrs)

CSE Specialty Elective
CSE Specialty Elective
CSE Specialty Elective

See next page for details on specialty elective areas

Electrical Engineering (11 Hours)

EENG 2710 or ENGR 2720 – Digital Logic
ENGR 2730 – Logic Design Lab
EENG 3510 – Electronics I
EENG 2610 or ENGR 2405 – Circuit Analysis
ENGR 2415 – Circuit Analysis Lab

Elective Courses (To reach 121 Hrs with 42 Advanced Hrs.)
It is strongly recommended that students take advanced courses in the core areas to satisfy the 42 advanced hours requirement within the 121 hour minimum.

Communication (3 Hours)

Approved Course __________________
Grade of “C” or better is required

American History (6 Hours)

HIST 2610 __________________
HIST 2620 __________________

NOTE: Honors equivalents or History 4700 (Texas History) or any advanced US Topic History course(s) may substitute for either of the US History survey courses.

Government / Political Science (6 Hours)

PSCI 1040 __________________
PSCI 1050 __________________

NOTE: If you are transferring credit for either PSCI course, please check with your advisor. Do not assume that your “first” course elsewhere is the same as PSCI 1040. An out-of-state American Government course cannot be equivalent to PSCI 1040 but may be equivalent to PSCI 1050. Any advanced US Topic Political Science course may substitute for PSCI 1050 only.

Social and Behavioral Sciences (3 Hours)

(From list of approved options for this category)

Creative Arts (3 Hours)

(upper division recommended to reach 42 advanced hours)

Language, Philosophy & Culture (3 Hours)

(From list of approved options for this category)

Discovery (3 Hours)

Capstone (3 Hours)

CSE 4011 Satisfies

Take upper division (3xxx & 4xxx) courses where possible

NOTE: The student is required to maintain a 2.75 GPA and a C or better in all CSE courses.

Checking the catalog for any additional information.

Completing the four-course sequence CSE 4210, 4215, 4220, and 4250 earns a Certificate in Game Programming

Check with your advisor concerning elective courses

In case of conflicting information, the catalog (catalog.unt.edu) prevails. This guide is for catalog year 2015-16 and does not apply to other catalog years.
Computer Engineering Specialty Area Electives

Specialization Area: Real-time and Embedded Systems (choose 3 courses)

- ELET 3750 – Embedded C Programming
- CSCE 4440 – Real-Time Software Development
- CSCE 4444 – Software Engineering
- CSCE 4600 – Introduction to Operating Systems
- CSCE 4610 – Computer Systems Architecture
- CSCE 4620 – Real-Time Operating Systems
- CSCE 4730 – VLSI Design
- CSCE 4890 – Directed Study in a Real-Time / Embedded Topic

Specialization Area: VLSI and Electronics (choose 3 courses)

- ELET 3750 – Embedded C Programming
- ELET 4340 – Digital Logic Design Techniques
- ELET 4300 – Embedded System Organization
- PHYS 4500 – Introduction to Solid State Physics
- CSCE 4610 – Computer Systems Architecture
- CSCE 4730 – VLSI Design
- CSCE 4890 – Directed Study in a VLSI / Electronics Topic

Specialization Area: Communications and Networks (choose 3 courses)

- CSCE 3420 – Internet Programming
- CSCE 3530 – Introduction to Computer Networks
- CSCE 4510 – Introduction to Wireless Communication
- CSCE 4520 – Wireless Networks and Protocols
- CSCE 4530 – Computer Network Design
- CSCE 4550 – Introduction to Computer Security
- CSCE 4560 – Secure Electronic Commerce
- CSCE 4890 – Directed Study in a Communications / Networks Topic

Specialization Area: Computer Systems (choose 3 courses)

- CSCE 3030 – Parallel Programming
- CSCE 4050 – Cryptography
- CSCE 4240 – Introduction to Digital Image Processing
- CSCE 4600 – Introduction to Operating Systems
- CSCE 4610 – Computer Systems Architecture
- CSCE 4620 – Real-Time Operating Systems
- CSCE 4650 – Introduction to Compilation Techniques
- CSCE 4730 – VLSI Design
- CSCE 4890 – Directed Study in a Systems Topic
Pre-requisite Structure
BS in Computer Engineering

See Undergraduate catalog for requirements

Elective credit only

Not for CSCE major credit

See previous page For Specialty descriptions

Maximum 6 hours credit in these courses

MATH 1780 Probability Models
MATH 2700 Linear Algebra
MATH 2730 Calculus III
MATH 1720 Calculus II
MATH 1710 Calculus I UNT Level 3
MATH 1650 Pre-Calculus UNT Level 2
MATH 1100 Col. Algebra UNT Level 1
MATH 1010 Fund. of Algebra
MATH 1581 Survey of Math
MATH 1681 Elem. Prob & Stats

CHEM 1410/1430

Required for BSCE

See math department for placement before registering for your first math course

UNT Math Level 0

Junior Standing Required

Advanced Math or Science Elective

Math 1780 Probability Models
Math 2700 Linear Algebra
Math 2730 Calculus III
Math 1720 Calculus II
Math 1710 Calculus I UNT Level 3
MATH 1650 Pre-Calculus UNT Level 2
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MATH 1010 Fund. of Algebra
MATH 1581 Survey of Math
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CHEM 1410/1430

Pre-requisite Structure
BS in Computer Engineering

See Undergraduate catalog for requirements

Elective credit only

Not for CSCE major credit

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Maximum 6 hours credit in these courses

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CHEM 1410/1430

Pre-requisite Structure
BS in Computer Engineering

See Undergraduate catalog for requirements

Elective credit only

Not for CSCE major credit

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Maximum 6 hours credit in these courses

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MATH 1681 Elem. Prob & Stats

CHEM 1410/1430

Required for BSCE

See math department for placement before registering for your first math course

UNT Math Level 0
# Suggested 4 Year Schedule

**BS in Computer Engineering**

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<thead>
<tr>
<th>Semester</th>
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<tr>
<td><strong>Freshman</strong></td>
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<td><strong>Sophomore</strong></td>
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<tr>
<td><strong>Fall</strong></td>
<td>CSCE 1030 Communications</td>
<td><strong>Fall</strong></td>
<td>Phys 2220/2240</td>
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<td>CHEM 1410 or 1415/1430 or 1435</td>
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<td>Math 1710</td>
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<td>ENGR 2720/2730</td>
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<td>PSCI 1050</td>
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<tr>
<td><strong>Spring</strong></td>
<td>Phys 1710/1730</td>
<td></td>
<td>CSCE 2110</td>
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<td>TECM 2700</td>
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<td>CSCE 2610</td>
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<td>CSCE 1040</td>
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<td>Math 2730</td>
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<td>PSCI 1040</td>
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<td>MATH 2700</td>
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<tr>
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<td>Math 1720</td>
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<td>ENGR 2405/2415</td>
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<td><strong>Junior</strong></td>
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<td><strong>Fall</strong></td>
<td>CSCE 3010</td>
<td><strong>Fall</strong></td>
<td>CSCE 3730</td>
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<td>EENG 3510</td>
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<td>CSCE 4910</td>
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<td>CSCE 3020</td>
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<td>Adv. Math Science Elective</td>
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<td>Track Spec Adv Elective</td>
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<td>Creative Arts</td>
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<td>Social and Beh. Science</td>
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<td>Lang, Phil, and Culture</td>
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<td>CSCE 3612</td>
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</tbody>
</table>
**COMMUNICATION (3 Hours)**
- ENGL 1310, College Writing I
- ENGL 1311, Honors College Writing I
- ENGL 1315, Writing about Language
- TECM 1312, Intro. to Writing For International Students
- TECM 1700, Intro. to Professional, Science, & Tech. Writing

- AP English Language & Composition score of 4 or 5 fulfills this category

**AMERICAN HISTORY (6 Hours)**
- HIST 2610, US to 1865 or
- HIST 2675, Honors US History to 1865
- HIST 2620, US from 1865 or
- HIST 2685, Honors US History from 1865

- AP U.S. History score of 3, 4 or 5
- CLEP History of United States I
- CLEP History of United States II

**GOVT./POLITICAL SCIENCE (6 Hours)**
- PSCI 1040, American Government or
- PSCI 1041, Honors Am. Government
- PSCI 1050, American Government or
- PSCI 1051, Honors Am. Government

- AP U.S. History score of 3, 4 or 5
- CLEP U.S. Government & Politics score of 3, 4 or 5
- CLEP American Government fulfills PSCI 1050 or PSCI 1051

**CREATIVE ARTS (3 Hours)**
- ART 1300, Art Appreciation
- ART 1301, Honors Art Appreciation
- ART 2360, Art History Survey II
- COMM 2060, Performance of Literature
- DANC 1200, Appreciation of Dance
- DANC 2800, Survey of Dance
- MUMH 1600, Music in Human Imagination
- MUMH 2040, Music Appreciation
- MUMH 3000, Nineteenth-Century Music
- MUMH 3010, Twentieth-Century Music
- THEA 1340, Aesthetics of the Theatre
- THEA 2340, Theater Appreciation
- THEA 3030, World Theatre to 1700
- THEA 3040, World Theatre from 1700

- AP Art History score of 4 or 5
- IB Dance score of 4 or higher* fulfills this category

**LANGUAGE, PHIL. & CULTURE (3 Hours)**
- ENGL 2210, World Literature I
- ENGL 2211, Honors World Literature I
- ENGL 2220, World Literature II
- ENGL 2221, Honors World Literature
- FREN 3040, Adv. Reading French Culture
- FREN 4060, Studies in French Literature
- FREN 4310, French Civilization & Culture
- GERM 3040, Topics in German Culture
- GERM 3050, Topics in German Literature
- GERM 4310, Topics Adv. German Culture
- HIST 1050, World History to 16th Century
- HIST 1060, World History from 16th Century
- ITAL 3040, Topics in Italian Culture
- ITAL 3050, Italian Culture
- JAPN 3020, Advanced Japanese I
- JAPN 3030, Advanced Japanese II
- MÚET 3030, Music Cultures of the World
- PHIL 1050, Introduction to Philosophy
- PHIL 1400, Contemporary Moral Issues
- PHIL 2050, Introduction to Logic
- PHIL 2070, Great Religions
- PHIL 2100, Introduction to Judaism
- PHIL 2310, Intro. to Ancient Philosophy
- PHIL 2400, Religion in American Society
- PHIL 2600, Ethics in Science

- AP English Literature & Composition score of 4 or 5 fulfills this category
- AP World History score of 3, 4 or 5
- IB History score of 4 or higher* fulfills this category

**SOCIAL & BEHAVIORAL SCIENCE (3 Hours)**
- AGER 4560, Minority Aging
- AGER 4800, Social Context of Aging
- ANTH 1010, Intro. to Anthropology
- ANTH 2300, Culture and Society
- BEHV 2300, Behavior Principles I
- CJ US 2100, Crime and Justice in the U.S.
- COMM 2020, Interpersonal Comm.
- DFST 1013, Human Development
- EADP 4050, Special Pop. in Disasters
- ECON 1100, Microeconomics
- ECON 1110, Macroeconomics
- GEOG 1200, Global Societies
- HLTH 2200, Family Life & Human Sexuality
- JOUR 1210, Mass Comm. & Society
- MDSE 2750, Consumers in Global Market
- MDSE 3370, Fashion Theory & Trend Analysis
- MKTG 2650, Princ. of Global Marketing
- PADM 2100, Diversity in Urban Gover.
- PSYC 1630, General Psychology I
- PSYC 1650, General Psychology II
- RHB 3000, Microcounseling
- SOC 1100, Int. to Social Science
- SOC 1510, Individuals in Society
- SOC 1510, Individuals in Society
- SOC 2100, Crime & Justice in the U.S.

- AP Macroeconomics score of 3, 4 or 5
- AP Microeconomics score of 3, 4 or 5
- AP Psychology score of 3, 4 or 5
- IB Economics score of 4 or higher*
- IB Geography score of 4 or higher*
- IB Psychology score of 4 or higher*
- CLEP Macroeconomics
- CLEP Microeconomics
- CLEP Macroeconomics
- CLEP Microeconomics
- CLEP Introductory Psychology
- CLEP Introductory Sociology fulfills this category

**CAPSTONE (3 Hours)**
- AGER 2250, Aging in Film & Literature
- ANTH 1100, World Cultures
- ANTH 1150, World Cultures Through Film
- ANTH 2070, Intro. to Race & Ethnic Studies
- ANTH 2200, Gender Across Cultures
- BCIS 3615, Visual Display of Business Info.
- BIOL 1000, Discover Life Science
- BIOL 1750/1755, Intro. Research Lab I & II
- BMEN 1340, Managing Business Enterprise
- CHEM 1400, Discover Chemistry
- COMM 1010, Intro. to Communication
- COMM 1440, Honors Classical Argument
- COMM 2040, Public Speaking
- COMM 2140, Rhetoric & Argument
- COUN 2620, Diversity & Cultural Awareness
- DANC 1100, Stress Reduct. Thru Movement
- DFST 2033, Parenting in Diverse Families
- DFST 3423, Family, Schools, Communities
- ENGL 2500, Literary Analysis & Interpretation
- ENGR 1030, Technological Systems
- FREN 1610, French Influence in North Am.
- FREN 1620, French Language in Canada
- GEOG 1500, Geography of DFW Metroplex
- HMG 1450, Principles of Nutrition
- HNRS 1100, The Good Society
- HNRS 1500, Intro. to Research
- INST 2100, Intro. to International Studies
- ITAL 1610, Italian Influence in the U.S.
- LANG 1610, World Languages
- LING 2050, Language of Now
- MATH 2000, Discrete Mathematics
- MDSE 2750, Consumers in a Global Market
- MEEN 1000, Discover Mech. & Energy Engnr.
- MGMT 3330, Communicating in Business
- MKTG 3010, Professional Selling
- PHED 1000, Health Related Fitness
- PHIL 1500, Philosophy of Self
- PHIL 2400, Religion in American Society
- PHIL 2500, Contemporary Environmental Issues
- PSCI 1010, Politics and Pop Culture
- PSYC 1500, Mythbusting
- RHB 3000, Microcounseling
- SOC 2070, Race & Ethnic Relations
- SWK 4540, Human Diversity
- TECM 1500, New Media for College Career
- WMST 2100, Women & Society

*Completion of IB program, earned IB Diploma, & minimum score of 4 or completion of IB program without the earned diploma & minimum score of 5, 6 or 7.
The tables below indicate the University Core, College of Engineering and Departmental course requirements that are available to take at area community colleges before transferring to UNT Denton or UNT Dallas. Courses that are taken at area community colleges after transferring to UNT Denton or UNT Dallas must be approved from a UNT advisor and may be different than what is listed on these tables.

Core Classes

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<th>Title</th>
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<td>Composition I</td>
<td>ENGL 1301</td>
<td>ENGL</td>
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<td>Technical Writing</td>
<td>ENGL 2311</td>
<td>ENGL</td>
<td>ENGL</td>
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<td>HIST 1301</td>
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<td>HIST 1302</td>
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Please see the College of Engineering Advisers in Discovery Park BEFORE enrolling in courses at another institution.
### College of Engineering Core

#### Grades of ‘D’ are not accepted

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